



INTENSIVE CARE VENTILATOR

ALTIMA

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ALTIMA - TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION		
Equipment Classification	Class II, Type B		
Power Supply	External Source	100-240 VAC; 50/60 Hz	
	Internal Source	11.1 VDC, 4400 mAh Li-ion Battery	
Gas Supply	Medical Oxygen	200 to 600 kPa	
	Compressed Air	200 to 600 kPa	
Ventilator Type	Electronically controlled and pneumatically driven ventilator		
Display Screen	15 inch touch screen color TFT display		
Functional Keys (In Display)	Standby, Alarm Silence, 100% O ₂ 90sec, Manual Insp, Insp Hold, Exp Hold, Occlusion Pressure, Touch Screen Lock, Nebulizer and Tracheal Gas Insufflation.		
Rotary Encoder Knob	To adjust and confirm parameters like ventilation setting, alarm settings. Green color for external source (AC supply) and Blue color for internal source (Battery).		
Application	Adult, Pediatric & Neonate		
Real Time Graphics	Waveform	Pressure vs. Time, Flow vs. Time, Volume vs. Time	
	Loop	Pressure vs. Volume, Volume vs. Flow	
	Bar	Airway Pressure	
Ventilation Modes	Invasive Modes	VCV (can be assisted), PCV (can be assisted), PRVC (can be assisted), PLV (can be assisted), V-SIMV + PS, P-SIMV + PS, CPAP + PS + Backup (VCV/PCV), DualPAP + PS + Backup (VCV/PCV).	
	Non Invasive Modes	CPAP + PS + Backup (VCV/PCV)	
Ventilation Setting Parameters	Range	Ventilation Monitoring Parameters	Range
Tidal Volume	10~3000 mL	High Pressure (DualPAP)	5~90 cmH ₂ O
Respiratory Rate	1~180 bpm	Low Pressure (DualPAP)	0~45 cmH ₂ O
Inspiratory Flow	0~180 L/min	High Time (DualPAP)	0.1~59.9 sec
Inspiratory Time	0.05~30 sec	Low Time (DualPAP)	0.2~59.9 sec
Inspiratory Pause	0~70 %	10%	0.2~59.9 sec
Inspiration to Expiration Ratio	1:599~299:1	Flow Trigger	0~30 L/min
Pressure Control	5~120 cmH ₂ O	Pressure Trigger	0~-20 cmH ₂ O
Pressure Support	0~120 cmH ₂ O	Pressure Rise	0~2 sec
Positive End Expiratory Pressure	0~50 cmH ₂ O	Expiratory Sensitivity	5~80 %
Pressure Limit	0~120 cmH ₂ O	Patient Height (BMI Mode)	10~250 cm
Nebulizer	5~8 L/min (manually operated)	Volume/Weight (BMI Mode)	4~10 mL/kg
Tracheal Gas Insufflation	5~8 L/min (manually operated)	Inspiratory Flow Waveform	Square, Descending, Ascending, Sine
Ventilation Monitoring Parameters	Tidal Volume, Minute Volume, Respiratory Rate, Measured Flow, Positive End Expiratory Pressure, Oxygen Concentration, Occlusion Pressure, Ti / T total, Rapid Shallow Breathing Index, Inspiratory Time, Expiratory Time, Inspiration to Expiration Ratio, Peak Airway Pressure, Mean Airway Pressure, Inspiratory Plateau Pressure, Static Compliance, Dynamic Compliance, Imposed Work of Breathing.		
Alarm Setting Parameters	Tidal Volume, Minute Volume, Respiratory Rate, Peak Airway Pressure, Positive End Expiratory Pressure, Oxygen Concentration, Apnea Alarm Time, Alarm Auto Range, Alarm Silence Time		
Audio-Visual Alarms	High Priority	Apnea, Obstruction, Disconnection, Airway Pressure High, Airway Pressure Low, Tidal Volume High, Tidal Volume Low, O ₂ Supply Low, Air Supply Low, Battery Low, Check Battery, Communication Breakdown, Inoperative Equipment.	
	Medium Priority	No AC Power, Check Leakage, Check Flow Sensor, Minute Volume High, Minute Volume Low, Rate High, Rate Low, PEEP High, PEEP Low, FiO ₂ High, FiO ₂ Low, Limited Pressure.	
Weight & Dimensions (LXDXH)	64 Kg (with medical air compressor) & 711 x 508 x 1270 in mm		
Standard Accessories	AC power cord, High pressure hose with DISS connector for oxygen and air, Pipeline water trap for oxygen and air, Reusable dual limb patient circuit for adult, NIV Mask for adult, Compliance test lung for adult, Distal flow sensor (hot wire type) with cable, Galvanic oxygen sensor (inbuilt), Circuit holder arm.		
Optional Accessories	Air compressor (inbuilt), Humidifier, Reusable dual limb patient circuit for pediatric/neonate, Disposable dual limb patient circuit for adult/pediatric/neonate, NIV Mask for pediatric/neonate, Compliance test lung for pediatric/neonate, Paramagnetic oxygen sensor, distal flow sensor.		
Air Compressor (inbuilt) (optional)	Compact size and integrated medical grade air compressor operated on AC power supply, microprocessor controlled with visual alarms ensuring safety, capable to provide a continuous air flow of 70 L/min and peak flow of 180 L/min with inbuilt pressure indicator and hour meter, Optional : Provision to automatically switch over to air pipeline source (if sufficient pressure is available) and switch back to compressor (if air pipeline pressure is depleting).		

*Specifications, design and / or accessories listed in the catalogue subject to change without prior notice

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